





### Health Canada's role in ICATM

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Canada

### Canada and ICATM

- In 2007, Canada was invited to join the three validation organizations (ICCVAM, ECVAM, and JaCVAM) in a cooperative approach to validating alternative test methods and reaching consensus on recommending their suitability for use
- Canada has no Centre for Validation but ......
- Canada has <u>contributed expertise to various stages of</u> the validation process and test guideline development
- Primary interest is in ensuring that new alternative methods or strategies offer <u>equivalent or better</u> <u>protection of human health</u> while respecting the 3Rs
- The Environmental Health Science and Research Bureau continues to coordinate Canada's input









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### **Health Canada**

- Health Canada is made up of 12 Branches, Offices and Bureaux as well as 4 Agencies
- Branches involved in regulation of potentially harmful exposures include:
  - · Healthy Environments and Consumer Safety Branch
  - · Health Products and Food Branch
  - Pest Management Regulatory Agency
- · Relevant instruments include:
  - Acts
  - · Regulations
  - · Guidelines and standards









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#### **Health Canada and Validation**

- Although there is no formal programme or VAM, Canada contributes to:
  - · Pre-validation research
    - In vitro transgenic gene mutation
    - In house research on introducing metabolic activation into in vitro assays using transfection methodology
  - · Validation lab-work including international collaborative studies
    - Metal bioavailability/bioaccessibility, IPCS studies
  - · Validation management committees
    - OECD VMG Mammalian Methods, E.D.T.A
    - OECD VMG Non-Animal in vitro endocrine disrupters
  - · Peer review
    - Independent Scientific Peer review: Use of In Vitro Methods for Estimating Starting Doses for Acute Oral Systemic Toxicity Tests – ICCVAM – 2006
    - Lead bioavailability









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# Health Canada and Method Development/Refinement/Validation

- · Activities have been organized through
  - · The OECD / International Programme on Chemical Safety
  - · The International Workshop on Genotoxicity Testing
  - ICCVAM: future involvement with input to "Interagency Biologics Working Group"
  - · Japanese Environmental Mutagen Society
  - · Collaboration with "TOXCAST" on mechanisms of action
- Potency and Safety Testing of Biological Products at Health Canada
  - Development and evaluation of alternative assays to the mouse safety test for residual pertussis toxin in vaccines
  - Development of alternative methods for testing of human biotherapeutics e.g. erythropoietin (epo) & collaboration with other regulatory authorities, peerreview publication
- Food Microbiological Safety at Health Canada
  - Via industry-government collaborations (e.g., to evaluate and validate in vitro botulinum toxin detection assays in food and biologics)









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### Update: Health Canada's Role in ICATM

- Health Canada aims to continue to contribute expertise to the validation of alternative tests
- In August 2011, Health Canada will host an ICATM Meeting in Montreal, Quebec (Agenda being finalized)
- Where there are opportunities to participate and adequate resources, we will contribute to:
  - · Validation management (design)
  - · Validation studies
  - · Peer review
  - Recommendations on suitability and limitations for alternative test method use
- Much of this will be accomplished through review of documents









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### **Health Canada**

## **THANK YOU**



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